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(54) FUEL REFORMER

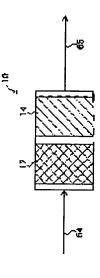
(57) Abstract:

PROBLEM TO BE SOLVED: To provide a technique former using a partial oxidation reaction and a steam to improve the reforming efficiency of fuel in a fuel rereforming reaction.

surface area of a catalyst in the high density part 12 sity part 12 and a low density part 14. The specific action and the partial oxidation reaction is provided in both parts. Hydrocarbon based fuel, steam and air and fuel supply passage. The partial oxidation reaction SOLUTION: A reformer 10 is provided with a high denis larger compared to that in the low density part 14. are supplied to the reformer 10 through a raw material The catalyst for accelerating the steam reforming re-

n the low density parts 14, the lowering of the activity for the steam reforming reaction in the whole reformer 10, which is caused by the excessive increase of the activity for the steam reforming reaction to lower the temperature, is prevented by the small specific surface cause of the larger specific surface area of the catalyst. proceeds more actively in the high density part 12 be-(71) Applicant: TOYOTA MOTOR CORP (72) Inventor: TAKAHASHI HIRDAKI area of the catalyst.

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